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(CH). **JUNGEN, Alain** [LU/CH]; Bülachstrasse 3a,
CH-8057 Zürich (CH). **STAMPFER, Christoph** [IT/IT];
Kühbachweg, 18, I-39050 Völs Am Schlern (IT).

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(74) Agent: **KLEY, Hansjörg**; c/o Siemens AG, Postfach 22
16 24, 80506 München (DE).

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(71) Applicant (for all designated States except US): **ETH
ZÜRICH** [CH/CH]; Eth Transfer, Rämistrasse 101,
CH-8092 Zürich (CH).

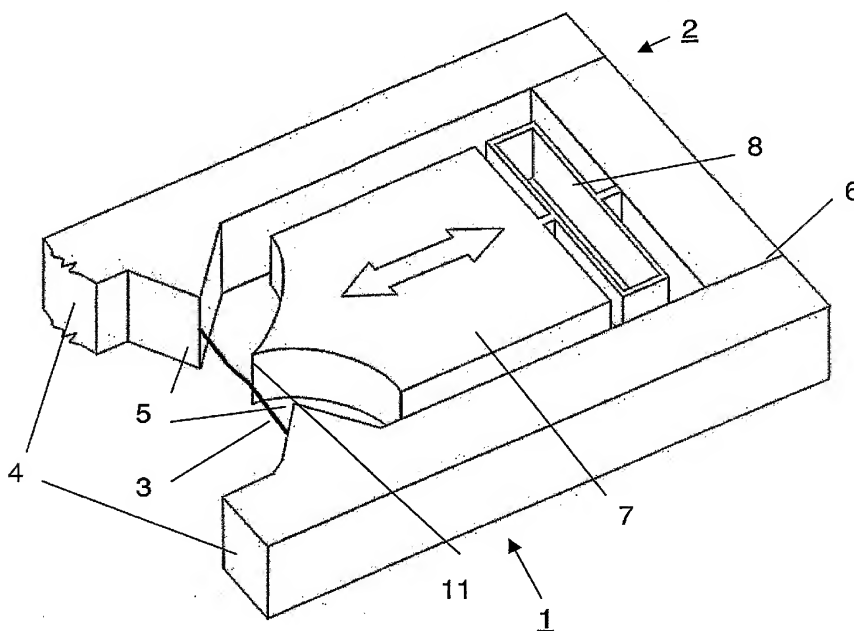
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(72) Inventors; and

(75) Inventors/Applicants (for US only): **HIEROLD,
Christofer** [DE/CH]; Eilweg 5, CH-8634 Hombrechtikon

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(54) Title: FORCE SENSOR



(57) Abstract: The resolution and the signal-to-noise ration of known force sensors as e.g. capacitive force sensors decrease when scaling them down. To solve this problem there is a solution presented by the usage of a nanostructure as e.g. a carbo nanotube, which is mechanically deformed by a force to be measured. The proposed force sensors comprises a support with two arms carrying the carbon nanotube. The main advantage of this force sensor is a very high sensitivity as the conductance of carbon nanotubes changes several orders of magnitude when a mechanical deformation arises.

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